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   Francini, A.; Chiussi, F.M.;
   Selected Areas in Communications, IEEE Journal on
   Volume 20, Issue 8, Oct. 2002 Page(s):1589 - 1601
   Digital Object Identifier 10.1109/JSAC.2002.803993
   Summary: Multistage packet switches that feature a limited amount of buffers in the switching fabric and distribute most of their buffering capacity over the port cards have recently gained popularity due to their scalability properties and flexibility in sup.....
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   Jae Young Kim; Byung Jun Ahn; Hyeong Ho Lee;
   ATM (ICATM 2001) and High Speed Intelligent Internet Symposium, 2001. Joint 4th IEEE International Conference on
   22-25 April 2001 Page(s):28 - 31
   Digital Object Identifier 10.1109/ICATM.2001.932051
   Summary: VC-merging allows VCs to be mapped onto the same VC label. In the multiprotocol label switching (MPLS) domain, an ATM-LSR (label switch router) needs a VC-merging method because of network scalability problems. VC-merging also plays an important role.....
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3. **Dynamic burst transfer time-slot-base network**
   Shiomoto, K.; Yamanaka, N.;
   Communications Magazine, IEEE
   Volume 37, Issue 10, Oct. 1999 Page(s):88 - 96
   Digital Object Identifier 10.1109/35.795595
   Summary: This article proposes a new high-speed network architecture called dynamic burst transfer time-slot-base network (DBTN). The DBTN network is based on circuit-switched network technology. A routing tag is attached to a burst at an ingress edge node an.....
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4. **A four-terabit single-stage packet switch with large round-trip time support**
Abel, F.; Minkenberg, C.; Luijten, R.P.; Gusat, M.; Iliadis, I.;
High Performance Interconnects, 2002. Proceedings. 10th Symposium on
21-23 Aug. 2002 Page(s):5 - 14
Digital Object Identifier 10.1109/CONECT.2002.1039251
Summary: We present the architecture and practical VLSI implementation of a 4-Tb/s single-stage switch. It is based on a combined input- and crosspoint-queued structure with virtual output queuing at the ingress, which has the scalability of input-buffered sw.....
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Bartos, R.; Raman, M.; Gandhi, A.;
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Volume 1, 4-7 July 2001 Page(s):58 - 61 vol.1
Digital Object Identifier 10.1109/EURCON.2001.937763
Summary: Multiprotocol label switching (MPLS) has emerged as the technology of choice for future IP networks. As the demands put on networks increase, MPLS can serve as the basis for providing better reliability, manageability, and overall quality of service.....
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Digital Object Identifier 10.1109/ICCCN.1999.805511
Summary: This paper proposes a new high-speed network architecture DBTN (dynamic burst transfer time-slot-base network), which is based on circuit-switched network technology. A routing tag is attached to a burst at an ingress edge node and the burst is self-.....
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Sivaraman, V.; Chiussi, F.;
INFOCOM 2000. Nineteenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE
Volume 2, 26-30 March 2000 Page(s):631 - 640 vol.2
Digital Object Identifier 10.1109/INFCOM.2000.832237
Summary: This paper develops a framework for statistically guaranteeing end-to-end delay bounds to leaky-bucket-constrained flows transporting real-time traffic in a network of switches using earliest deadline first (EDF) packet scheduling and per-hop traffic.....
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8. **Resource management with hoses: point-to-cloud services for virtual private networks**
Duffield, N.G.; Goyal, P.; Greenberg, A.; Mishra, P.; Ramakrishnan, K.K.; van der Merwe, J.E.;
Networking, IEEE/ACM Transactions on
Volume 10, Issue 5, Oct. 2002 Page(s):679 - 692
Digital Object Identifier 10.1109/TNET.2002.803918
Summary: As IP technologies providing both tremendous capacity and the ability to establish dynamic security associations between endpoints emerge, virtual private networks (VPNs) are going through dramatic growth. The number of endpoints per VPN is growing a.....
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Thu Ngo Quynh; Karl, H.; Wolisz, A.; Rebensburg, K.;
Universal Multiservice Networks, 2002. ECUMN 2002. 2nd European Conference on
8-10 April 2002 Page(s):116 - 123
Digital Object Identifier 10.1109/ECUMN.2002.1002096
Summary: There exist some studies in proportional delay scheduling algorithms for a Differentiated Service (DiffServ) network which schedule the packets between different classes proportionally based on queuing delay. Traditionally, it is necessary to impleme.....
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Services Over the Internet - What Does Quality Cost? (Ref. No. 1999/099), IEE Colloquium on
23 June 1999 Page(s):5/1 - 5/4
Summary: Broadband Internet access architectures for residential, SOHO and small business are being developed largely in the ADSL Forum, where two architectures have been proposed for service provider access. The two architectures proposed are the PTA-PPP Ter.....
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11. **Guaranteeing statistical QoS to regulated traffic: the single node case**
Reisslein, M.; Ross, K.W.; Rajagopal, S.;
INFOCOM '99. Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE
Volume 3, 21-25 March 1999 Page(s):1061 - 1072 vol.3
Digital Object Identifier 10.1109/INFCOM.1999.751661
Summary: Multimedia traffic can typically tolerate some loss but has rigid delay constraints. A natural QoS requirement for a multimedia connection is a prescribed bound on the the fraction of traffic that exceeds an end-to-end delay limit. We propose and ana.....
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